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UNITED STATES DEPARTMENT OF THE INTERIOR NATIONAL PARK SERVICE

NATIONAL REGISTER	OF HISTORIC PLACES
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SEE INSTRUCTIONS IN HOW TO COMPLETE NATIONAL REGISTER FORMS TYPE ALL ENTRIES -- COMPLETE APPLICABLE SECTIONS NAME Hangar 9 (Brooks Air Force Base) HISTORIC AND/OR COMMON Edward H. White II Museum 2 LOCATION STREET & NUMBER Inner Circle Road, Brooks Air Force Base
__NOT FOR PUBLICATION CONGRESSIONAL DISTRICT CITY, TOWN 23 San Antonio VICINITY OF COUNTY STATE 029 48 Bexar Texas 3 CLASSIFICATION PRESENT USE **CATEGORY OWNERSHIP STATUS** X_MUSEUM __AGRICULTURE XOCCUPIED DISTRICT _XPUBLIC __PARK __COMMERCIAL __UNOCCUPIED X BUILDING(S) __PRIVATE _EDUCATIONAL __PRIVATE RESIDENCEWORK IN PROGRESS _STRUCTURE вотн **PUBLIC ACQUISITION** __ENTERTAINMENT __RELIGIOUS ACCESSIBLE __SITE _GOVERNMENT __SCIENTIFIC __IN PROCESS XYES: RESTRICTED OBJECT __INDUSTRIAL __TRANSPORTATION ___YES: UNRESTRICTED __BEING CONSIDERED __OTHER. __MILITARY __NO Contact: Base Commander, Brooks Air Force Base 4 OWNER OF PROPERTY John Bullard, Base Historian NAME U.S. Air Force STREET & NUMBER The Pentagon STATE CITY, TOWN D.C. Washington VICINITY OF LOCATION OF LEGAL DESCRIPTION COURTHOUSE. Office of the County Clerk REGISTRY OF DEEDS, ETC. STREET & NUMBER Bexar County Courthouse STATE CITY, TOWN, Texas Houston 6 REPRESENTATION IN EXISTING SURVEYS Texas State Historical Survey; National Register of Historic Places X_FEDERAL XSTATE __COUNTY __LOCAL 1970 1970; DEPOSITORY FOR National Register Texas State Historical Commission; SURVEY RECORDS

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CONDITION

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DESCRIBE THE PRESENT AND ORIGINAL (IF KNOWN) PHYSICAL APPEARANCE

Hangar 9 is the lone survivor of 16 similar structures erected at Brooks Field early in 1918. Facing generally northeast-southwest, they formed a segmental arc flanking the north side of a northeast-southwest dirt runway, which today is covered with close-clipped grass Over the years the Army removed the old edifices one by one and eventually announced, in the 1960's, that the last one, Hangar 9, would be demolished as well. At that time aviation enthusiasts and the Bexar County Historical Society asked for and received Air Force permission to restore the hangar to the service's safety specifications. San Antonio citizens and others raised the necessary funds, saw the work carried out, and in 1968 dedicated the refurbished structure, in honor of Astronaut Edward H. White II, as an aviation museum.

The hangar is rectangular shaped and two stories high with a low pitched, gambrel roof supported by wood trusses still held together by the original bolts. White-painted weatherboarding sheathes the sides and ends, except where doors and windows stand. Affixed to the eight-bay-long north side is a center-placed, four-bay-long, one-bay-wide, flat-roofed, white-painted, frame wing. An original fixture, it now houses museum offices and restrooms and is accessible from the exterior by a single door in the center of the north wall and from the aircraft storage area by two widely spaced, single doors in the hangar's north wall.

Except where interrupted by the north wing, each bay of the eight-bay-long north and south sides of the hangar is naturally lighted by a two-tiered, triple window set in a wood frame and displaying six-over-six sashes. The middle four bays on the north side have only upper-level windows. All six wing bays have single-tiered, triple windows with six-over-six sashes.

At each end of Hangar 9, four massive, approximately 16-footlong, white-painted, board-and-batten, sliding doors stand on flat steel rails and hang from a double, metal track that extends some 16 feet beyond each side of the building to rest on buttressed wood posts. This system allows the hangar to be fully open at each end. Also at each end, one of the large hangar doors has a smaller, standard-sized, board-and-batten door for easy individual access when the larger doors are shut. Two widely separated, single, wood doors provide additional entry on the south side.

Inside the hangar the walls are unsealed and the wood trusses exposed. The floor is a concrete slab (original), and upon it rest numerous historical aviation exhibits, including a single-engine Curtiss biplane.

8 SIGNIFICANCE

SPECIFIC DAT	ES 1918-1945	BUILDER/ARC	MITECT	
X _1900-	COMMUNICATIONS	INDUSTRY INVENTION	POLITICS/GOVERNMENT	_OTHER (SPECIFY)
1800-1899	COMMERCE	EXPLORATION/SETTLEMENT	PHILOSOPHY	TRANSPORTATION
1700-1799	ART	ENGINEERING	MUSIC	THEATER
1600-1699	ARCHITECTURE	EDUCATION	X_MILITARY	SOCIAL/HUMANITARIAN
1500-1599	AGRICULTURE	ECONOMICS	LITERATURE	SCULPTURE
1400-1499	ARCHEOLOGY-HISTORIC	CONSERVATION	LAW	SCIENCE
PREHISTORIC	ARCHEOLOGY-PREHISTORIC	COMMUNITY PLANNING	LANDSCAPE ARCHITECTURE	RELIGION
PERIOD	AF	REAS OF SIGNIFICANCE CI	HECK AND JUSTIFY BELOW	

1918-1945 STATEMENT OF SIGNIFICANCE

> The only survivor among several hangars that the U.S. Army Signal Corps Aviation Section built on its hastily established World War I training fields, Hangar 9 is the Nation's oldest Air Force aircraft storage and repair facility. Erected in 1918 and recently restored to serve as an aviation museum, the wood-trussed, whitepainted, frame structure symbolizes both early Army efforts to create an effective air arm and the rapid progress made toward that goal under the impetus of war.

When the United States entered the First World War in April 1917, the Army had only 35 pilots and about 200 training planes, none of which mounted weapons. In May, however, the National Defense Council created an Aircraft Production Board, and in the next 18 months American manufacturers produced almost 14,000 planes and 42,000 aircraft engines. Meanwhile the Aviation Section recruited thousands of potential pilots and constructed or leased 18 flying fields at which to train them.

Brooks Air Force Base--originally known as Gosport Field and later as Brooks Field--was one of the new training sites. It differed somewhat from the others, however, for when it opened in March 1918 its staff trained new instructors in the experimental Gosport system of teaching flying. Devised earlier by the British, the method was adopted subsequently for all U.S. Army flight-training centers. turning out scores of World War I pilots and new instructors, Brooks in mid-1919 temporarily became a center for balloon-flight instruction. but 3 years later heavier-than-air craft returned. The Army made Brooks a primary flying school, and during the next 9 years, 5,573 students reported here for pilot's training. A partial list of the field's instructors and students, many of whom have a direct association with Hangar 9 and all of whom are memorialized by it, reads like an honor roll of pioneer military aviators. Included are: Chennault, Thomas D. White, Jimmy Doolittle, John Macready, William C. Ocker, Charles A. Lindbergh, and Nathan F. Twining.

History

When the United States entered the First World War in April 1917, the Army lacked an effective air arm. Responsibility for aerial operaForm No. 10-300a (Rev. 10-74)

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Hangar 9 Brooks Air

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tions lay with the Signal Corps' Aviation Section, which had only 35 pilots and about 200 training planes of dubious military value. True, only a little more than 13 years had lapsed since the Wright brothers' first successful manned flight in a powered airplane, but as early as 1914 France had boasted 171 trained pilots and 260 planes. and Germany, according to some reports, had manufactured more than 500 military aircraft. The lagging condition of American military aviation was due in part to lack of money. In 1898 the War Department awarded Samuel P. Langley \$50,000 to develop a man-carrying version of his powered glider, and in 1907 the Board of Ordnance and Fortification ordered construction of a plane that could carry two people at a speed of 40 miles per hour, but not until 1911 did Congress vote a specific aviation budget. It allotted the Army \$125,000 with which to purchase planes and conduct aeronautical experiments. appropriation enabled the corps to establish its first flying school (at College Park, Md.), but identical sums the next 2 years did not allow expansion of the program. Although Congress increased subsequen appropriations, these remained woefully short of the amounts needed to keep up with European military aviation. One official Air Force history describes the service's situation in 1917 as bleak:

Little or nothing was on hand, either of planes, fields, instructors, curricula; or-most important of all-experience that would indicate what was needed. The United States had never trained an aviator for actual combat overseas; and there was no one who knew what kind of instruction was necessary for radio operators, photographers, or . . . enlisted personnel.

The official history might have added that the United States also lacked an air doctrine. No decision had been made about what role aircraft should play in warfare. Should their mission be observation only, or did it include offense and defense?

Once it became clear that the Nation's difficulties with Germany would result in a declaration of war, military and civilian officials alike moved to correct the deficiencies in American military aviation. Three days before Congress approved the war declaration, the National Advisory Committee for Aeronautics, a research agency entirely sepa-

Quoted in Carroll V. Glines, The Compact History of the United States Air Force (New York, 1963), 72.

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rate from the Signal Corps, asked American aircraft manufacturers what kind of reconnaissance planes they could provide and in what quantity. The replies proved inconclusive, but nevertheless in May the National Defense Council created an Aircraft Production Board which promptly announced that the United States could build at least 3,500 aircraft in its first year of production. Congress, meanwhile, came under increasing pressure from the civilian Aero Club of America, Secretary of War Newton D. Baker, and finally from President Woodrow Wilson to provide funds for a large fleet of planes. In July the solo voted \$640 million for an air force. Many companies, especially in the automobile industry, now hastened to join the Curtiss Company, Boeing, Vought, and others in aircraft production. Two noted automobile engineers, Jesse G. Vincent and J. G. Hill, developed plans for a light-weight, V-8 "Liberty" engine, which they later converted to 12 cylinders. By October 1918 U.S. factories were turning out "Liberties" at the rate of 4,200 a month, and by Armistice Day total aircraft engine production equaled about 42,000. Aircraft production for this same period totaled almost 14,000.

In the meantime, the Army, having established its first tactical air unit in 1916 with only eight planes, recruited men for flight training, and thousands of would-be pilots volunteered. only about half of these, the Army sent them first to 8 weeks of ground school at one of eight large engineering colleges and then to flight school at one of 18 leased or hastily constructed flying fields One of these specially built training centers was Gosport Field, later Brooks Field and now Brooks Air Force Base, near San Antonio, Tex. Although nearly all the installation's original structures have been razed, original Hangar 9, erected in 1918, remains as a symbol of these early Army efforts to make effective military use of the airplane

The War Department chose San Antonio as a training center because of its favorable climate, good water supply, and convenient transportation facilities. Happy at the prospect of the economic boost that an air base would give the community, the San Antonio Chamber of Commerce assembled an 873-acre tract south of the city and offered it as a site for the training field. The Army accepted, and military and civilian officials broke ground on December 8, 1917. Thomas and Harmon Company began constructing the facilities immediately afterward. The first commanding officer, Maj. Henry C. Pratt, arrived on February 16, 1918, and the first aircraft landed here on March 28, 1918

In the field's first few years, the Army utilized it for various purposes. During the war a primary mission of the installation was

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training flight instructors in the Gosport System of teaching flying. Devised earlier by the British, the method was adopted eventually for all U.S. Army flight-training centers. Among other things, the Gospor program required that an individual student remain with the same instructor throughout his primary flight training. This system became so closely identified with the San Antonio base, that for some time it was known informally as Gosport Field. Its formal name, Brooks Field, memorialized San Antonio pilot Sidney J. Brooks, Jr., who died in a crash at Kelly Field in 1917. In May 1919, a few months after World War I ended, the Army redesignated Brooks Field a balloon and airship school. A now-demolished balloon hangar was erected, and for some 3 years the field provided the setting for training lighter-than-air-craft pilots and ground crews.

Meanwhile in 1920 Congress passed the Army Reorganization Act, which established the Air Service as a combatant arm of the line, coordinate with the Infantry, Cavalry, and others. The new law authorized 1,500 officers and 16,000 enlisted men for air duty. This represented a reduction in the number of personnel from wartime, and even this figure was never realized in the 1920's due to lack of funds Still, creation of the Air Service represented an important step forward for military aviation.

As part of the reorganization effort, in 1922 the Army chose Brooks Field as the site for a primary flying school. Heavier-than-air craft returned, and the next 9 years proved one of the most significant periods in the post's history. More than 5,500 students reported here for training, and a partial list of the field's instructors and students, many of whom have a direct association with Hangar 9, reads like an honor roll of pioneer military aviators. Included are: Claire Chennault, Thomas D. White, Jimmy Doolittle, John Macread William C. Ocker, Charles A. Lindbergh, and Nathan F. Twining. During this same decade airmen at Brooks also conducted the world's first series of paratroop experiments. Mass air drops in 1929 demonstrated the practicality of tactical paratroop warfare.

In 1931 the Army relocated Brooks' primary flight school at nearby Kelly Field and assigned an aerial observation group to Brooks. During World War II, pilot-training returned and continued after the war for 14 years in the form of reserve activities. In 1959 the Air Force relocated its School of Aviation Medicine at Brooks, and in 1963 officials dedicated a new \$40 million complex of buildings that today form the nucleus of the U.S. Air Force School of Aerospace Medicine as well as headquarters for the Aerospace Medical Division.

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9 MAJOR BIBLIOGRAPHICAL REFERENCES

(See continuation sheet.)

GEOGRAPHICAL DATA ACREAGE OF NOMINATED PROPERTY less than one acre. UTM REFERENCES
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VERBAL BOUNDARY DESCRIPTION
The boundary of the nominated property coincides with a line that extends entirely around Hangar 9 at a distance of 30 feet from the plane of the main block's northeast and southwest end walls and 45 feet from the main block's northernmost and southernmost side walls.
LIST ALL STATES AND COUNTIES FOR PROPERTIES OVERLAPPING STATE OR COUNTY BOUNDARIES
STATE CODE COUNTY CODE
STATE CODE COUNTY CODE
George R. Adams, Managing Editor ORGANIZATION' American Association for State and Local History April 1976
STREET & NUMBER
1400 Eighth Avenue South 615-242-5583
Nashville Tennessee
12 STATE HISTORIC PRESERVATION OFFICER CERTIFICATION THE EVALUATED SIGNIFICANCE OF THIS PROPERTY WITHIN THE STATE IS:
. NATIONAL STATE LOCAL
As the designated State Historic Preservation Officer for the National Historic Preservation Act of 1966 (Public Law 89-665). I hereby nominate this property for inclusion in the National Register and certify that it has been evaluated according to the criteria and procedures set forth by the National Park Service.
FEDERAL REPRESENTATIVE SIGNATURE
TITLE: A REPORT OF THE PARTY OF
OR NPS USE ONLY I HEREBY CERTIFY THAT THIS PROPERTY IS INCLUDED IN THE NATIONAL REGISTER DATE
DIRECTOR, OFFICE OF ARCHEOLOGY AND HISTORIC PRESERVATION ATTEST: DATE
KEEPER OF THE NATIONAL REGISTER